

NEW OR RARE CRUSTACEANS FROM FRENCH POLYNESIA (CRUSTACEA: DECAPODA)

Since 1974, the F.R.V. 'Marara' has been used by the French Service Mixte de Contrôle Biologique (SMCB) to carry out a biological survey, throughout the Fishery Conservation Zone of French Polynesia. Among the fishing activities, traps are set on the outer slopes of the islands in depths ranging from 100 to 1000m. This has led to the discovery and description of several new species of decapod crustaceans. Some rare or recently described species have also been caught. This paper gives a list of the species concerned and the depth distributions of some of them. A list of genera of new species, now under study, is also given to emphasize the richness and high degree of endemism of this poorly known area. The details of the gear operations and the yields of Pandalidae shrimps are given in Poupin *et al.* (1990).

Results

Species Described from the Catches of the 'Marara'

Pandalidae: *Plesionika fenneri* Crosnier, 1986; *Plesionika carstni* Crosnier, 1986.

Enoplometopidae: *Hoplometopus gracilipes* De St. Laurent, 1988.

Xanthidae: *Progeron mararae* Guinot et Richer de Forges, 1981.

Goneplacidae: *Beuroisia manquenei* Guinot et Richer de Forges, 1981; *Mathildella maxima* Guinot et Richer de Forges, 1981.

Rare or Recently Described Species

Pandalidae: *Heterocarpus amacula* Crosnier, 1988; *Heterocarpus parvispina* de Man, 1917; *Heterocarpus ensifer* A. Milne Edwards, 1881.

Homolidae: *Hypsophrys personata* Guinot et Richer de Forges, 1981; *Hypsophrys inflata* Guinot et Richer de Forges, 1981.

Leucosiidae: *Randallia serenei* Richer de Forges, 1983.

The depth distributions of the three recently named *Heterocarpus*, formerly regarded as *H. ensifer* and *H. ensifer parvispina* (Crosnier 1988), are clearly defined and are presented together in Fig. 1.

Genera of the New Species, now under Study

Pandalidae: *Plesionika* sp. (three species, Crosnier).

Palaemonidae: *Periclimenes* sp. (Bruce, in press).

Enoplometopidae: *Enoplometopus* sp. (De St Laurent).

Parapaguridae: *Trizopagurus* sp. (two species, Forest).

Paguridae: *Solitariopagurus* sp. (Forest).

Galatheididae: *Eumunida* sp. (De St Laurent); *Munida* sp. (two species, De St Laurent).

Majidae: *Cyrtomaia* sp. (two species, Guinot et Richer de Forges).

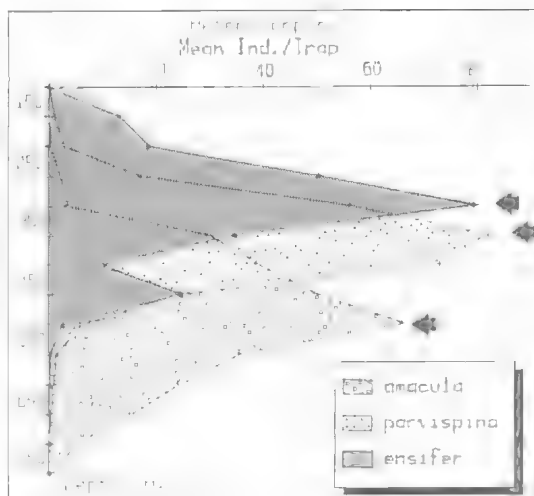


FIG. 1. Depth distributions of three close *Heterocarpus* spp. belonging to the group 'ensifer' (*H. parvispina*: abundance x 5; *H. amacula*: abundance x 13).

Parthenopidae: *Parthenope/Platylambrus* sp. (Garth).

Grapsidae: *Euchiropsus* sp. (Türkay); *Intesius* sp. (Guinot and Richer de Forges).

Canceridae: *Cancer* spp. (four species, Davie).

Acknowledgements

We thank Alain Crosnier of the Muséum National D'Histoire Naturelle, Paris, for his enthusiastic help in sorting and distributing our catches to taxonomists.

Literature Cited

- Crosnier, A. 1988. Sur les *Heterocarpus* (Crustacea, Decapoda, Pandalidae) du sud-ouest de l'océan Indien. Bulletin Muséum national d'Histoire naturelle, Paris. (4th Ser.) 10 (sect. A n°1): 57-103.
- Poupin, J., Tamarit, T. and Vandenboomgaerde, A. 1990. Pêches profondes aux casiers sur les pentes externes des îles de Polynésie Française (N/O Marara, 1986/1989). Notes et Documents d'Océanographie ORSTOM Tahiti 42: 1-100.

J. Poupin, SMCB SP 91427, Tahiti.

B. Richer de Forges, ORSTOM Nouméa, Nouvelle Calédonie.